

## **ABSTRACT OF THE DISCLOSURE**

The present invention is a linear motor comprising an improved heat dissipation mechanism, which has the function of increasing area of heat dissipation of coils of the linear motor, reducing the weight of the rotor of the motor and simplifying the heat dissipation mechanism. The coils of the present invention are not winding type and to use the center which don't have winded wires to serve as heat dissipation holes. Heat sink compound is smeared around the heat holes to increase the area of heat dissipation, and reduce the weight of the rotor such that the thrust and operating period of the motor are arisen. Besides, the present invention also can make a heat dissipation mechanism (such as a heat pipe or a air blowing pipe) be set into the heat holes to press near to heat resource and rise heat dissipation efficacy.

(FIG. 1)